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International Researcher IDs

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Education Information

Doctorate, Sharif University of Technology, Electrical Engineering Department, Iran 2014 - 2019

Foreign Languages

English, C1 Advanced

Research Areas

High Voltage Technique, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2021 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Adversarial Partial Discharge Signal Reconstruction and Denoising with an Encoder-Decoder Network**
FİRUZİ K.
IEEE Access, vol.12, pp.132271-132278, 2024 (SCI-Expanded)
- II. **Distinguishing polymeric insulators PD sources through RF PD measurement**
Abedini-Livari A., Firuzi K., Vakilian M.
IET GENERATION TRANSMISSION & DISTRIBUTION, vol.14, no.21, pp.4859-4865, 2020 (SCI-Expanded)
- III. **A Hybrid Transformer PD Monitoring Method Using Simultaneous IEC60270 and RF Data**
Firuzi K., Vakilian M., Phung B. T., Blackburn T. R.
IEEE TRANSACTIONS ON POWER DELIVERY, vol.34, no.4, pp.1374-1382, 2019 (SCI-Expanded)
- IV. **Online monitoring of transformer through stream clustering of partial discharge signals**
Firuzi K., Vakilian M., Phung B. T., Blackburn T.

IET SCIENCE MEASUREMENT & TECHNOLOGY, vol.13, no.3, pp.409-415, 2019 (SCI-Expanded)

V. Partial Discharges Pattern Recognition of Transformer Defect Model by LBP & HOG Features

Firuzi K., Vakilian M., Phung B. T., Blackburn T. R.

IEEE TRANSACTIONS ON POWER DELIVERY, vol.34, no.2, pp.542-550, 2019 (SCI-Expanded)

VI. Transformer components impact on compatibility of measured PDs: comparison of IEC60270 and RF methods

Firuzi K., Vakilian M., Toan Phung B., Blackburn T.

HIGH VOLTAGE, vol.4, no.1, pp.33-40, 2019 (SCI-Expanded)

VII. A Novel Method for Differentiating and Clustering Multiple Partial Discharge Sources using S Transform and Bag of Words Feature

Firuzi K., Vakilian M., Darabad V. P., Phung B. T., Blackburn T. R.

IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION, vol.24, no.6, pp.3694-3702, 2017 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. Line Composite Insulators Condition Monitoring through Partial Discharge Measurement

Abedini-Livari A., Eshaghi-Maskouni M., Vakilian M., Firuzi K.

34th International Power System Conference (PSC), Tehran, Iran, 9 - 11 December 2019, pp.595-600

II. Multi-source Partial Discharge Signals Discrimination by Six Bandpass filters and DBSCAN Clustering

Firuzi K., Vakilian M.

12th International Conference on the Properties and Applications of Dielectric Materials (ICPADM), Xian, China, 20 - 24 May 2018, pp.68-71

III. Identification of Free Conducting Particles in Transformer Oils using PD Signals

Firuzi K., Parvin V., Vakilian M.

2015 IEEE 11th International Conference on the Properties and Applications of Dielectric Materials (ICPADM), Sydney, Australia, 19 - 22 July 2015, pp.724-727

IV. Identification of metal particles in transformer oil using partial discharge signals

Firuzi K., Parvin V., Vakilian M.

23rd Iranian Conference on Electrical Engineering, Tehran, Iran, 10 - 14 May 2015, pp.1602-1606

Metrics

Publication: 11

Citation (WoS): 87

Citation (Scopus): 85

H-Index (WoS): 4

H-Index (Scopus): 4